

IN THE CLAIMS

By this amendment, claims 5, 10 and 22 are currently amended.

1. (Original) A voltage transformer circuit for minimizing temperature dependence of an output voltage, the voltage transformer circuit comprising:

a primary winding around a core, the primary winding being coupled to receive a voltage to be sensed;

a first secondary winding around a core, the first secondary winding being coupled to a first output terminal;

a second secondary winding around a core, the second secondary winding being coupled to the first output terminal; and

a bridge circuit coupled to the first and second secondary windings and to a second output terminal.

2. (Original) The voltage transformer circuit of claim 1 wherein a number of windings of the first secondary winding is equal to a number of windings on the second secondary winding.

3. (Original) The voltage transformer circuit of claim 1 wherein a winding ratio of the primary winding to the secondary windings is greater than one.

4. (Original) The voltage transformer circuit of claim 1 wherein a winding ratio of the primary winding to the secondary windings is equal to one.

5. (Currently amended) The voltage transformer circuit of claim 1 wherein a winding ratio of the primary winding ~~windings~~ to the secondary windings is less than one.

6. (Original) The voltage transformer circuit of claim 1 wherein the first and second secondary windings are formed by a center-tapped secondary winding coupled at a halfway point

to the first output terminal.

7. (Original) The voltage transformer circuit of claim 1 wherein the first and second secondary windings are formed in a bifilar arrangement on the core.

8. (Original) The voltage transformer circuit of claim 6 wherein the first and second secondary windings are formed in a bifilar arrangement on the core.

9. (Original) The voltage transformer circuit of claim 1 wherein the first and second secondary windings are formed by two windings coupled together and coupled to the first output terminal of the transformer.

10. (Currently amended) ~~The voltage transformer circuit of claim 1 wherein the bridge circuit comprises~~ A voltage transformer circuit for minimizing temperature dependence of an output voltage, the voltage transformer circuit comprising:

a primary winding around a core, the primary winding being coupled to receive a voltage to be sensed;

a first secondary winding around a core, the first secondary winding being coupled to a first output terminal;

a second secondary winding around a core, the second secondary winding being coupled to the first output terminal; and

a bridge circuit having two resistors coupled in parallel and coupled to the second output terminal, said bridge circuit coupled to the first and second secondary windings and to a second output terminal.

11. (Withdrawn): A voltage transformer circuit for minimizing temperature dependence of a voltage in a circuit including the voltage transformer circuit, the voltage transformer circuit comprising:

a primary winding around a core of a first transformer;

a primary winding around a core of a second transformer, the first and second transformer primary windings being coupled to receive a voltage to be sensed;

a secondary winding around the core of the first transformer, the secondary winding of the first transformer being coupled to a first output terminal;

a secondary winding around the core of the second transformer, the secondary winding of the second transformer being coupled to the first output terminal; and

a bridge circuit coupled to the secondary windings of the first and second transformer and to a second output terminal.

12. (Withdrawn): The voltage transformer circuit of claim 11 wherein:

a number of windings of the first transformer primary winding is equal to a number of windings on the second transformer primary winding; and

a number of windings of the first transformer secondary winding is equal to a number of windings on the second transformer secondary winding.

13. (Withdrawn): The voltage sensing and transformer device of claim 11 wherein a winding ratio of the primary windings to the secondary windings is greater than one.

14. (Withdrawn): The voltage sensing and transformer device of claim 11 wherein a winding ratio of the primary windings to the secondary windings is equal to one.

15. (Withdrawn): The voltage sensing and transformer device of claim 11 wherein a winding ratio of the primary windings to the secondary windings is less than one.

16. (Withdrawn): The voltage transformer circuit of claim 11 wherein the bridge circuit comprises two resistors coupled in parallel to the second output terminal.

17. (Withdrawn): A method of minimizing temperature dependence of a voltage in a circuit including a voltage transformer circuit, the method comprising:

tapping a secondary winding of the transformer circuit such that a voltage provided by the voltage transformer circuit is proportional to a term that includes an impedance ratio of portions of the secondary winding.

18. (Withdrawn): The method of claim 17 wherein the impedance ratio is substantially equal to an impedance of a second portion of the secondary winding divided by a sum of the impedance of the second portion of the secondary winding and an impedance of a first portion of the secondary winding.

19. (Withdrawn): A method of minimizing temperature dependence of a voltage in a circuit including a voltage transformer circuit, the method comprising:

dividing a voltage provided by the voltage transformer circuit across first and second secondary windings such that a voltage provided by the voltage transformer circuit is proportional to a term that includes an impedance ratio of the first and second secondary winding.

20. (Withdrawn): The method of claim 19 wherein the impedance ratio is substantially equal to an impedance of the second secondary winding divided by a sum of the impedance of the second secondary winding and an impedance of the first secondary winding.

21. (Withdrawn): A voltage transformer circuit for minimizing temperature dependence of a voltage in a circuit including the voltage transformer circuit, the voltage transformer circuit comprising:

means for receiving a voltage to be sensed;

means for transforming the voltage to be sensed to a scaled voltage; and

mean for dividing the scaled voltage such that the temperature dependence of the scaled voltage is minimized.

22. (Currently amended) A voltage sensing device comprising:

a primary winding around a core, the primary winding being coupled to receive a voltage source to be sensed;

a first secondary winding around a core, the first secondary winding being coupled to a first input of a signal processing circuit;

a second secondary winding around a core, the second secondary winding being coupled to the first input of the signal processing circuit; and

a resistive bridge circuit coupled to the first and second secondary windings and to a second input of the signal processing circuit.

23. (Original) The voltage sensing device of claim 22 wherein the first and second secondary windings are formed by a center-tapped secondary winding coupled at a halfway point to the first output terminal.

24. (Original) The voltage sensing device of claim 22 wherein the first and second secondary windings are formed in a bifilar arrangement on the core.

25. (Original) The voltage transformer circuit of claim 23 wherein the first and second secondary windings are formed in a bifilar arrangement on the core.